

**MICROPHONE ASSEMBLY WITH PREAMPLIFIER AND
MANUFACTURING METHOD THEREOF**

ABSTRACT

[0032] A microphone assembly include a microphone housing unit having a cover and a base. The microphone assembly further includes a preamplifier circuit assembly attached to the base and protected by the cover. The protected preamplifier circuit assembly has at least one terminal unprotected by the cover. A radio frequency interference suppression device can be electrically coupled to the preamplifier circuit and includes at least one internal ground electrically coupled to the at least one terminal. The at least one internal ground provides a ground path between the cover and the base.